(12) INTERNATIONAL APPLICA N PUBLISHED UNDER THE PATENT COOPERA N TREATY (PCT)

(19) World Intellectual Property Organization

International Bureau



(43) International Publication Date 22 January 2004 (22.01.2004)

PCT

(10) International Publication Number WO 2004/008765 A1

(51) International Patent Classification⁷: H04N 7/167, 5/00

(21) International Application Number:

PCT/IB2003/002839

(22) International Filing Date: 20 June 2003 (20.06.2003)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 02077837.9

11 July 2002 (11.07.2002)

(71) Applicant (for all designated States except US): KONIN-KLIJKE PHILIPS ELECTRONICS N.V. [NL/NL]; Groenewoudseweg 1, NL-5621 BA Eindhoven (NL).

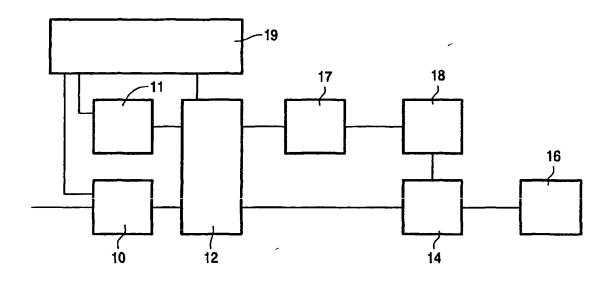
(72) Inventors; and

(75) Inventors/Applicants (for US only): KAMPERMAN, Franciscus, L., A., J. [NL/NL]; c/o Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL). VAN RIJNSOEVER, Bartholomeus, J. [NL/NL]; c/o Prof . Holstlaan 6, NL-5656 AA Eindhoven (NL).

- (74) Agent: GROENENDAAL, Antonius, W., M.; Philips Intellectual Property & Standards, Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: APPARATUS FOR PROVIDING CONDITIONAL ACCESS TO A STREAM OF DATA



(57) Abstract: A decoder decrypts data from the stream of data, using decryption control words. A secure device is coupled to the decoder to supply the control words. The secure device has a memory space for storing at least two items of entitlement information with associated authorization keys. The secure device has an input for receiving messages from the apparatus. The message contains information for example about the source of the stream. The secure device contains an execution unit that responds to the messages by selecting from among the at least two items, if stored, dependent on a content of the messages. The execution unit enables sending of the control words to the decoder subject to the presence and validity of the selected one of the items of entitlement information, after decryption of the control word with a decryption key associated with the selected one of the items.



Declaration under Rule 4.17:

as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for the following designations AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU,

TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)

Published:

with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 H04N7/167 H04N5/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC 7 - H04N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Х	EP 0 714 204 A (LG ELECTRONICS INC) 29 May 1996 (1996-05-29) abstract page 2, line 54 -page 5, line 45	1-7
X	EP 1 094 667 A (IRDETO ACCESS BV) 25 April 2001 (2001-04-25) abstract column 1, line 57 -column 2, line 19 column 2, line 53 -column 3, line 26	1,2,7
A	US 5 991 400 A (KAMPERMAN FRANCISCUS L A J) 23 November 1999 (1999-11-23) cited in the application column 1, line 33 -column 2, line 46 column 5, line 32 -column 10, line 11	1-7

Further documents are listed in the continuation of box C.	χ Patent family members are listed in annex.
 Special categories of cited documents: 'A' document defining the general state of the art which is not considered to be of particular relevance 'E' earlier document but published on or after the International filing date 'L' document which may throw doubts on priority claim(s) or which is ched to establish the publication date of another citation or other special reason (as specified) 'O' document referring to an oral disclosure, use, exhibition or other means 'P' document published prior to the International filing date but later than the priority date claimed 	 'T' later document published after the international filing date or priority date and not in conflict with the application but died to understand the principle or theory underlying the invention. 'X' document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone. 'Y' document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. '&' document member of the same patent family
Date of the actual completion of the international search 17 October 2003	Date of mailing of the international search report 24/10/2003
Name and mailing address of the ISA European Palent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Schoeyer, M



PCT/IB 03/02839

		PC1/1B 03/02839		
	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	Relevant to claim No.		
Category •	Citation of document, with indication, where appropriate, of the relevant passages	Pelevalit to Claim No.		
A	US 5 461 675 A (DIEHL ERIC ET AL) 24 October 1995 (1995-10-24) cited in the application abstract column 1, line 22 -column 2, line 34	1-7		



PCT/IB 03/02839

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
EP 0714204	A	29-05-1996	CN	1137723 A ,B	11-12-1996
			DE	69524931 D1	14-02-2002
			DE	69524931 T2	29-08-2002
			EP	0714204 A2	29-05-1996
			JP	3108618 B2	13-11-2000
			JP	8242438 A	17-09-1996
			US	5757909 A	26-05-1998
EP 1094667	Α	25-04-2001	WO	0130082 A1	26-04-2001
			EP	1094667 A1	25-04-2001
			ΑT	217136 T	15-05-2002
			AU	764533 B2	21-08-2003
			ΑU	7663400 A	30-04-2001
			BR	0014842 A	11-06-2002
			CA	2387564 A1	26-04-2001
			CN	1379954 T	13-11-2002
			DE	69901398 D1	06-06-2002
			DE	69901398 T2	29-08-2002
			ES	2175897 T3	16-11-2002
			JP	2003512785 T	02-04-2003
			US	2002120928 A1	29-08-2002
US 5991400	Α	23-11-1999	EP	0800745 A1	15-10-1997
			WO	9716924 A1	09-05-1997
			JP	10512428 T	24-11-1998
US 5461675	Α	24-10-1995	AU	667231 B2	14-03-1996
			AU	4615693 A	24-03-1994
			DE	69312828 D1	11-09-1997
			DE	69312828 T2	27-11-1997
			EΡ	0588184 A1	23-03-1994
			ES	2105021 T3	16-10-1997
			HK	1009313 A1	24-03-2000
			JP	6197341 A	15-07-1994
			SG	46722 A1	20-02-1998